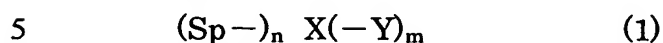
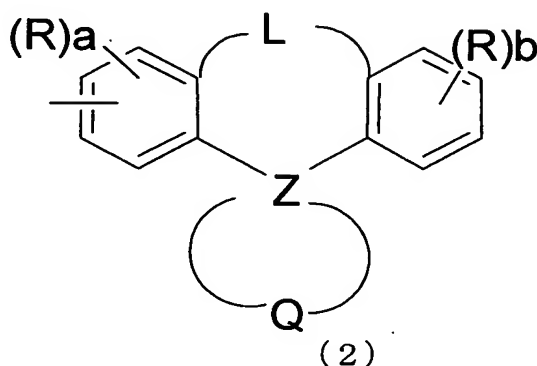


What is claimed is:

1. A compound having a spiro bond represented by a following general formula (1):



wherein Sp is a group having a spiro bond represented by a following general formula (2):



10    wherein L represents a single bond,  $-(\text{CR}'\text{R}'')_e-$ ,  $-(\text{Si R}' \text{R}'')_e-$ ,  $-\text{O}-$ ,  $-\text{CO}-$  or  $-\text{NR}'-$ ;

R' and R'' each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; e represents an integer of 1 to 10; further R' and R'' may be the same with or different from each other;

Z represents a carbon atom, a silicon atom or a germanium atom;

Q represents a group forming a ring structure;

20    R represents a substituted or unsubstituted aromatic group having 6 to 50

ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; when there are plural of R, they may be the same with or different from each other and they may be bond with each other to form a ring structure; a and b each independently represents an integer of 0 to 4;

X represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted condensed aromatic ring group having 12 to 20 ring carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 ring atoms or a group formed by combining plural of the preceding groups; excluding a case where X is an anthracendiyl group or a polyanthracendiyl group;

Y represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms and may further having a vinyl-bond and still further may contain a group having a spiro bond represented by the general formula (2);

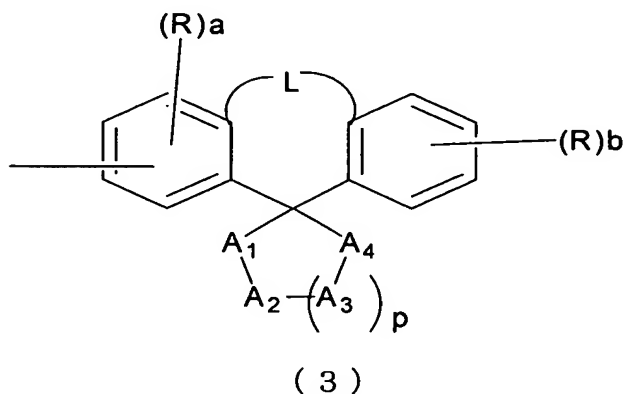
n represents an integer of 1 to 4;

m represents an integer of 1 to 2; and

when Sp in the general formula (1) is a spirobifluorenyl group, a case where X has a backbone structure selected from a group consisting of

pyrenylene backbone structure, chrysenylene backbone structure and phenanthrene backbone structure is excluded.

2. The compound having a spiro bond according to Claim 1, wherein Sp in the general formula (1) is represented by the following general formula (3):



- wherein R represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group;
- L represents a single bond,  $-(CR'R'')_e-$ ,  $-(SiR'R'')_e-$ ,  $-O-$ ,  $-CO-$  or  $-NR'-$ ;

a and b each independently represents an integer of 0 to 4;

A<sub>1</sub> to A<sub>4</sub> each independently represents —CR'R"—, —SiR'R"—, —O—, —NR'— or —CO—;

5 R' and R" each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; R' and R" may be the same with or different from each other and they may bond with each other to form a ring structure; and

10 p represents an integer of 1 to 10.

3. The compound having a spiro bond according to Claim 2, wherein at least two adjacent components among A<sub>1</sub> to A<sub>4</sub> in the general formula (3) each represents —CR'R"—;

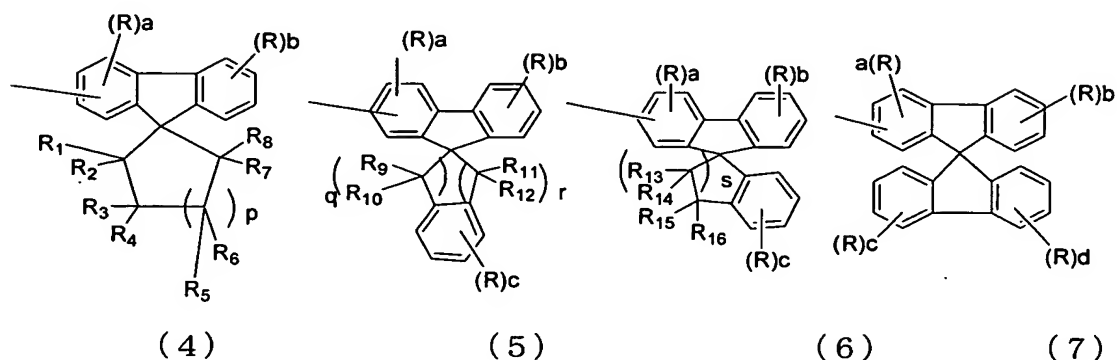
15 R' and R" each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; R' and R" may be the same with or different from each other and they may  
20 bond with each other to form a ring structure; and

the adjacent R's, the adjacent R"s or both R' and R" will bond saturatedly or unsaturatedly forming a ring structure having 4 to 50 carbon atoms as a result.

25

4. The compound having a spiro bond according to Claim 1, wherein Sp is a group represented by any one of the following general formulae (4) to (7):

5



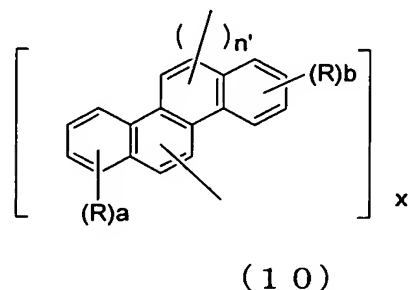
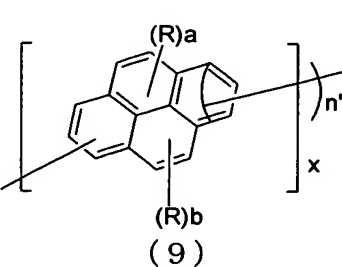
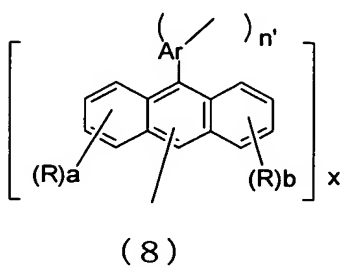
wherein R represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 ring atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; when there are plural of R, they may be the same with or different from each other and they may be bond with each other to form a ring structure; and

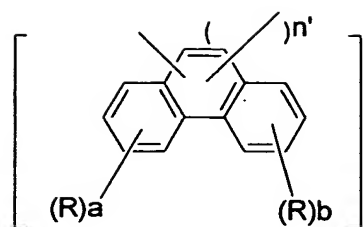
$R_1$  to  $R_{16}$  each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; at least two among  $R_1$  to  $R_{16}$  may bond each other to form a ring structure;

$a, b, c$  and  $d$  each represents an integer of 0 to 4 respectively;

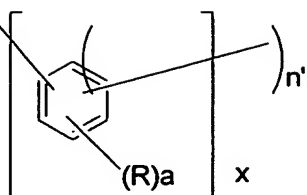
$p, q, r$  and  $s$  each represents an integer number of 1 to 10 respectively;

wherein  $X$  is a group represented by any one of the following general formulae (8) to (25) or a group made by combining at least two of groups represented by the following general formulae (8) to (25):

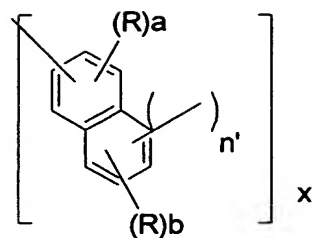




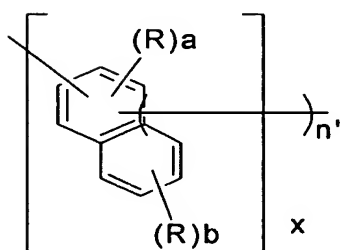
( 1 1 )



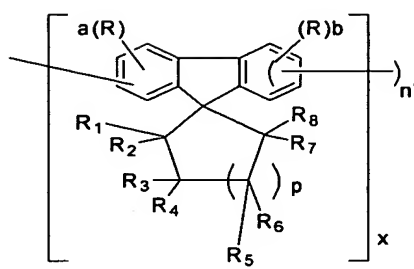
( 1 2 )



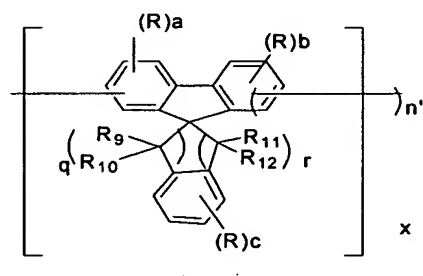
( 1 3 )



(14)

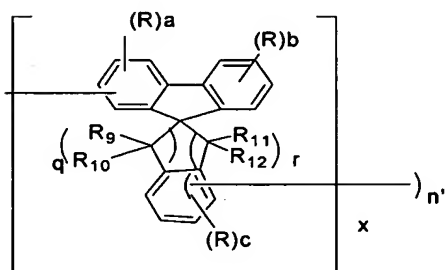


( 1 5 )

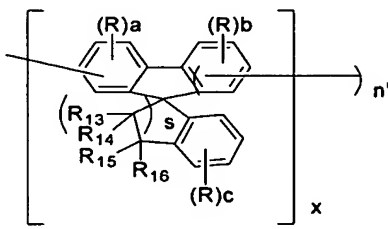


( 1 6 )

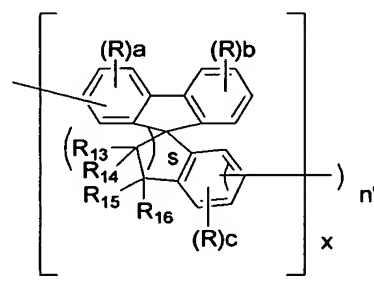
5



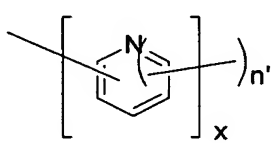
( 1 7 )



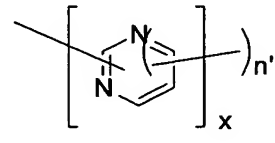
( 1 8 )



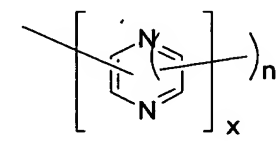
( 1 9 )



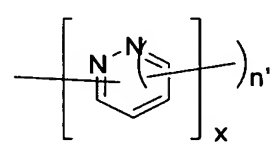
(20)



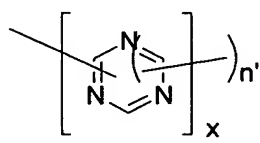
( 2 1 )



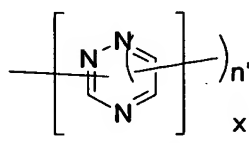
( 2 2 )



( 2 3 )



( 2 4 )



( 2 5 )

wherein R, R<sub>1</sub> to R<sub>16</sub>, a to d and p to s are the same as the foregoing description;

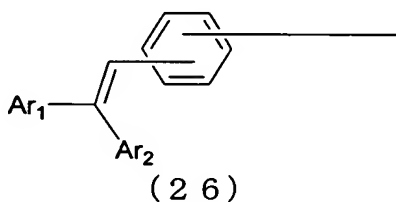
wherein Ar represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 ring atoms, or a group made by combining plural of those preceding groups; excluding a case where Ar is an anthracendiyl group or a polyanthracendiyl group;

n' represents an integer of 0 to 5;

x represents an integer of 1 to 20; and

when Sp is a group represented by the general formula (7), a case where X is a group represented by any one of the general formulae (9) to (11) is excluded.

5. The organic electroluminescence device according to Claim 4, wherein Y in the general formula (1) is a group represented by a general formula (26):



wherein Ar<sub>1</sub> and Ar<sub>2</sub> each independently represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms respectively and further, Ar<sub>1</sub> and Ar<sub>2</sub> may be the same with or different from each other.

6. A compound having a spiro bond according to any one of Claims 1 to 5,



which is a light emitting material for an organic electroluminescence device.

7. A material for forming a luminous coated film which comprises the  
5 compound having a spiro bond according to any one of Claims 1 to 5.

8. An organic electroluminescence device which comprises at least one  
organic thin film layer sandwiched between a pair of electrode consisting  
of an anode and a cathode, wherein the organic thin film layer comprises  
10 the compound having a spiro bond according to any one of Claims 1 to 5.

9. The organic electroluminescence device according to Claim 8, wherein  
said light emitting layer comprises the compound having a spiro bond.

15 10. The organic electroluminescence device according to Claim 8, which  
emits bluish light.

11. The organic electroluminescence device according to Claim 9, which  
emits bluish light.